|                   |              |  |  |           |                 |            |          |          | 10/768,662 |           |           |                 |          |              |            |                  |              |           | ABE ET AL. |           |           |         |   |  |  |  |
|-------------------|--------------|--|--|-----------|-----------------|------------|----------|----------|------------|-----------|-----------|-----------------|----------|--------------|------------|------------------|--------------|-----------|------------|-----------|-----------|---------|---|--|--|--|
|                   |              |  |  |           |                 |            |          | Examiner |            |           |           |                 |          |              |            | Ar               | t Un         | it        |            |           |           |         |   |  |  |  |
|                   |              |  |  |           |                 |            |          |          | Johr       | n T.      | . K       | won             |          |              |            |                  | 37           | 47        |            |           |           |         |   |  |  |  |
|                   | _            |  |  |           |                 |            |          |          |            |           |           |                 |          |              |            |                  |              |           |            |           |           |         |   |  |  |  |
| •                 | <b>1</b>     | Rejected   |  |           | (Th             | rough      | num      | eral     | )          |           | $\prod$   | Non-E           | Eler     | ted          |            | $\left[ \right]$ |              | Αn        | pes        | <br>al    | 7         |         |   |  |  |  |
|                   | Ľ            | ,  |  |           | Cancelled       |            |          |          |            |           | N         |                 |          |              | A          | Appeal           |              |           |            | _         |           |         |   |  |  |  |
|                   | =            | Allowed  |  | ÷         |                 | Rest       | ricted   | l        |            |           | ı         | Interf          | еге      | nce          |            | 0                | (            | Obj       | ecto       | ed        |           |         |   |  |  |  |
|                   |              |  | J  |           |                 |            |          |          |            | L         | _         |                 |          |              |            | Ш                |              |           |            |           |           |         |   |  |  |  |
| Claim             |              | Dat  | e  | · · · · · | ] [             | Claim      |          |          |            | Date      |           |                 |          | Cla          | aim        |                  |              |           | Dat        | е         |           |         | ] |  |  |  |
| ع   <sub>ه</sub>  | 8            |  |  |           |                 | <u>_</u> = | <u> </u> |          |            |           |           |                 |          | <u>_</u>     | nal        |                  |              |           |            |           |           |         |   |  |  |  |
| Final<br>Original | 5/8/05       |  |  |           |                 | Final      | -<br>-   |          |            |           |           |                 |          | Final        | Original   |                  |              |           |            |           | .         |         |   |  |  |  |
| 1                 | +            |  | $\vdash$   | -         | ┨┞              | 5          | - 1 - 1  | +        | -          | $\dashv$  | $\dashv$  |                 | -        | $\vdash$     | 101        | $\vdash$         | $\dashv$     | +         | -          | $\vdash$  | $\dashv$  | +       |   |  |  |  |
| 2                 | ,            |  | $\Box$   |           | d               | 5          | 2        | $\perp$  | +          |           | 1         | +               | 1        |              | 102        | $\vdash$         | +            | +-        | +          | Н         | $\dashv$  | +       |   |  |  |  |
| 3                 | П            |  |  |           | ] [             | 5          |          | $\perp$  | $\Box$     |           | $\Box$    | $\perp \perp$   | ]        |              | 103        |                  |              | 1         |            |           |           | Ţ       |   |  |  |  |
| 5                 | H            |  |  | ╁┼        | ┨┠              | 5<br>5     |          | +        | +          | $\dashv$  | -         | +               | $\dashv$ |              | 104<br>105 |                  | +            | +         | +          | Н         | +         | +       | - |  |  |  |
| 6                 | #            |  |  |           | ] [             | . 5        | 6        |          |            |           |           |                 | 1        |              | 106        |                  |              |           |            |           |           |         | ] |  |  |  |
| 8                 | #            |  | $\vdash$   |           | -{ }-           | 5<br>5     |          | _        | +          | _         | $\dashv$  |                 | -        |              | 107<br>108 | $\vdash$         | _            | +         | $\vdash$   | Н         | -         | - -     |   |  |  |  |
| 9                 | +            |  | $\vdash$   |           | <b>1</b>        | 5          | 9        | +        | +          | $\dashv$  | 1         |                 | ╡        |              | 109        | $\vdash$         | _            | +         | +-         | Н         | $\dashv$  | +       | 1 |  |  |  |
| 10                | $\mathbf{I}$ |  |  |           | 7 F             | 6          |          |          | $\perp$    | $\Box$    |           |                 |          | •            | 110        | П                |              | ļ.        |            |           |           |         | ] |  |  |  |
| 11 12             | +            |  |  | +         | ┨┠              | 6          |          | +        | +          | $\dashv$  | $\dashv$  | ++              | ┨        |              | 111<br>112 | ╌                |              | -         | ╁          | $\vdash$  | +         | +       | - |  |  |  |
| 13                | $\Box$       |  |  |           | <b>]</b> [      | 6          | 3        |          |            |           |           |                 | _        |              | 113        |                  |              |           |            |           |           |         | ) |  |  |  |
| 15                | ╁            |  | $\vdash$   | -         | 4 1             | 6          |          | +        | $\perp$    | $\Box$    |           |                 | 4        |              | 114        | Н                | _            | 4         | $\vdash$   |           | 4         | 1       |   |  |  |  |
| 16                | ╫            |  | ++   | ++        | $\dashv \vdash$ | 6          |          | +        | +          | $\dashv$  | +         | ++              | -        | $\vdash$     | 115<br>116 | H                | +            | ┿         | +          | Н         | $\dashv$  | ┿       |   |  |  |  |
| 17                | П            |  |  |           | ] [             | 6          | 7        |          |            |           |           |                 | <b>I</b> |              | 117        |                  | $\perp$      |           |            |           |           |         |   |  |  |  |
| 18<br>19          | ₩            |  | +  | ++        | 4 F             | 6          |          |          |            |           | $\dashv$  | $\dashv$        | ┨        | -            | 118<br>119 |                  | +            | +-        | ╁┈         | -         | +         |         | - |  |  |  |
| 20                | 11           |  |  | ++        | <u> </u>        | 7          | 0        |          |            |           | $\exists$ |                 | 1        |              | 120        |                  | _            | $\dagger$ | T          |           |           |         | 1 |  |  |  |
| 21                | +            |  | $\vdash$   | ++        | <b>-</b>    -   | 7          |          | $\perp$  | -          |           | $\Box$    | $\perp \perp$   | 7        |              | 121        |                  | _ _          |           | _          |           | $\Box$    |         |   |  |  |  |
| 23                | +            |  | $\vdash\vdash$                                   | ++        | $\dashv \vdash$ | 7          |          | +        | +          | $\forall$ | +         | $\dashv \dashv$ | +        |              | 122<br>123 | $\vdash$         | +            | +         | ╁          | $\vdash$  | -         | +       |   |  |  |  |
| 24                | 1            |  |  |           | ] [             | 7          | 4        |          |            |           |           |                 | ]        |              | 124        |                  | 丰            | 1         |            |           |           |         |   |  |  |  |
| 25<br>26          | ╁            |  | +  | +         | -  F            | 7          |          | +        | +          | $\dashv$  | _         | -               | ┨        |              | 125<br>126 | $\vdash$         |              |           | ╄          | $\vdash$  |           | +       | - |  |  |  |
| 27                |              |  |  |           | J [             | 7          | 7        |          |            |           | -         |                 | _        |              | 127        | $\Box$           |              | 1         | ╁╴         |           |           | _       | 1 |  |  |  |
| 28                | $\vdash$     |  | $\vdash$   |           | <b>⊣</b>        | 7          | 8        |          |            | $\Box$    | _         | $\dashv$        | ].       |              | 128        |                  | _            | +         | -          |           |           | $\perp$ |   |  |  |  |
| 30                | ╁            |  | ++   | ++        | $\dashv \vdash$ | 8          |          | ╬        | +          | $\dashv$  | $\dashv$  | ++              | ╣        |              | 129<br>130 | $\vdash$         |              | +         | +          | H         | +         | +       | ł |  |  |  |
| 31                | 1            |  |  | $\Box$    | ] [             | 8          | 1        |          |            |           |           |                 | ]        |              | 131        | 口                | $\perp$      | #         |            | $\square$ |           | 丰       | 1 |  |  |  |
| 32<br>33          | +            |  | ╂  | +-+-      | 4 F             | 8          |          | +        | +          | $\vdash$  | $\dashv$  | ++              | +        | -            | 132<br>133 | $\vdash \vdash$  | +            | +         | $\vdash$   |           | -         | +       | 1 |  |  |  |
| 34                | $\perp$      |  | $\dagger \dagger$                                | ++        | 1 L             | 8          | 4        | $\dashv$ |            |           |           | 11              | 7        | -            | 134        |                  | $\top$       | +         | +-         | $\vdash$  | +         | ╅       |   |  |  |  |
| 35                | $\vdash$     |  |  |           | ] [             | 8          |          | $\bot$   |            | $\Box$    | $\Box$    |                 | ]        |              | 135        |                  |              |           |            |           |           |         | ] |  |  |  |
| 36<br>37          | ╁╌           |  | ++   | ++        | 4 +             | 8          |          | +        | +          | $\dashv$  | $\dashv$  | ++              | ╣        | $\vdash$     | 136<br>137 | $\vdash$         | +            | +         | ╁          | $\vdash$  | +         | -       | } |  |  |  |
| 38                |              |  |  |           | <b>1</b>        | 8          | 8        |          |            |           |           |                 | j        |              | 138        |                  | 士            | 土         |            |           |           |         |   |  |  |  |
| 39<br>40          | $\vdash$     |  |  | ++-       | 4 F             | 8          |          |          | $\Box$     | $\prod$   | -         | +               | -        | -            | 139        | $\Box$           | $\perp$      | F         | F          | Н         | 1         | 4_      | 1 |  |  |  |
| 41                | +            |  | ++-  | ++-       | ┨╟              | 9          |          | +        | +          | $\dashv$  | $\dashv$  | ++              | $\dashv$ | <del> </del> | 140<br>141 | -                | +            | +         | +          | Н         | +         | +       | 1 |  |  |  |
| 42                |              |  | H  |           | <b>]</b> [      | 9          | 2        | $\perp$  |            |           | _         |                 | ]        |              | 142        | 口                | $\downarrow$ | $\perp$   |            | П         | $\Box$    | 1       | 1 |  |  |  |
| 43                | ╀            |  | +  | ++        | 4 F             | 9          |          | +        | +          | $\dashv$  | $\dashv$  |                 | -        | $\vdash$     | 143<br>144 | $\vdash$         | +            | +         | ╁-         | -         | -         | +       | { |  |  |  |
| 45                | $\pm$        |  |  |           | <u> </u>        | 9          | 5        | _        | $\pm \pm$  |           |           |                 | 1        |              | 145        |                  | _            | $^{+}$    | $\perp$    | $\Box$    |           |         | 1 |  |  |  |
| 46                | F            |  |  |           | ] [             | 9          |          | $\bot$   |            |           |           |                 | ]        |              | 146        | 口                | 1            | 1         |            | П         |           | I       | ] |  |  |  |
| 47                | +            | <del>                                     </del> | <del>                                     </del> | ++-       | $\dashv \vdash$ | 9          |          | +        | ╁┤         | $\vdash$  | $\dashv$  | +               | $\dashv$ | -            | 147<br>148 | H                | +            | +         | +          | Н         | -         | +       |   |  |  |  |
| 49                |              |  |  |           | J [             | 9          | 9        | 士        |            |           |           | 廿               | _        |              | 149        | 口                | 士            | 士         |            |           | $\exists$ | $\pm$   | j |  |  |  |
| 50                | 1            |  |  |           |                 | 110        | 00       |          |            | ΙŤ        | T         | I T             | 1        | 1            | 150        | ıΤ               |              | Т         | 1          | Г         |           | 1       | ì |  |  |  |

Application No.

**Index of Claims** 

Applicant(s)